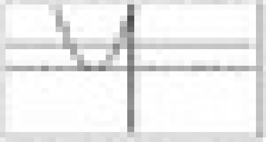
1-7 Inverse Relations and Functions – [illegible]

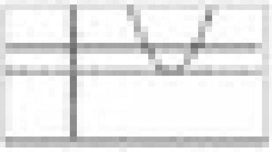
Graph each function using a graphing calculator, and apply the horizontal line test to determine whether its inverse function exists. Write yes or no.

1. The graph of f(x) = [illegible] below shows that it is possible to find a horizontal line that intersects the graph of f(x) more than once. Therefore, you can conclude that an inverse function does not exist.



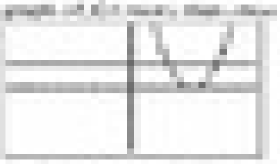
[illegible]

2. The graph of f(x) = [illegible] below shows that it is possible to find a horizontal line that intersects the graph of f(x) more than once. Therefore, you can conclude that an inverse function does not exist.



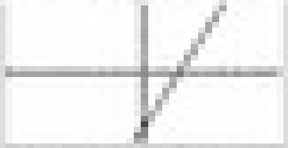
[illegible]

3. The graph of f(x) = [illegible] below shows that it is possible to find a horizontal line that intersects the graph of f(x) more than once. Therefore, you can conclude that an inverse function does not exist.



[illegible]

4. It appears from the portion of the graph of f(x) = [illegible] shown below that there is no horizontal line that intersects the graph of f(x) more than once. Therefore, you can conclude that an inverse function does exist.



[illegible]